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| | | | | Complete if Known | |
| | | | | Application Number | 10/642,594 |
| | | | | Filing Date | August 19, 2003 |
| | | | | First Named Inventor | Nobuyasu KANEKAWA |
| | | | | Art Unit | 2826 |
| | | | | Examiner Name | Thomas Dickey |
| Sheet | 1 | of | 1 | Attorney Docket Number | 056207.50307C1 |

| U.S. PATENT DOCUMENTS | | | | | |
|------------------------------|-----------------------|-----------------|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TD | AA | US- 6,225,664 | B1 05-01-2001 | Endo et al. | |
| TD | AB | US- 5,332,920 | | Nakagawa et al. | |
| TD | AC | US- 6,118,152 | | Yamaguchi et al. | |
| TD | AD | US- 6,130,458 | | Takagi et al. | |
| TD | AE | US- 5,818,282 | | Sumida | |
| — | — | — | — | — | — |

| FOREIGN PATENT DOCUMENTS | | | | | |
|---------------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TD | AF | JP 2000-022166 | 01-21-2000 | Toshiba Corp | ✓ |
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| NON PATENT LITERATURE DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ⁶ |
| TD | AG | European Search Report | | | |

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| Examiner Signature | <i>TD</i> | Date Considered | 4/2/05 |
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